1287

PATENT COOPERATION TREATY PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	(Form PCT/ISA/2	of Transmittal of International Search Report (20) as well as, where applicable, item 5 below.
RM/X89676/PC	ACTION	(Earliest) Priority Date (day/month/year)
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/monthlyear)
PCT/IT 00/00373	21/09/2000	21/09/1999
Applicant		
UNIVERSITA' DEGLI STUDI D	I ROMA "LA SAPIENZA"	
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Aut ansmitted to the International Bureau.	hority and is transmitted to the applicant
This International Search Report consists X It is also accompanied by	of a total of6 sheets. a copy of each prior art document cited in this	s report.
Basis of the report		
 a. With regard to the language, the language in which it was filed, unline 	international search was carried out on the ba less otherwise indicated under this item.	sis of the international application in the
the international search w Authority (Rule 23.1(b)).	vas carried out on the basis of a translation of t	the international application furnished to this
 b. With regard to any nucleotide ar was carried out on the basis of th 		nternational application, the international search
contained in the internation	onal application in written form.	
filed together with the inte	ernational application in computer readable for	m.
furnished subsequently to	this Authority in written form.	
furnished subsequently to	this Authority in computer readble form.	•
	bsequently furnished written sequence listing ones filed has been furnished.	does not go beyond the disclosure in the
the statement that the infi furnished	ormation recorded in computer readable form	is identical to the written sequence listing has been
2. X Certain claims were fou	ind unsearchable (See Box I).	
3. Unity of invention is lac	king (see Box II).	
4. With regard to the title ,		
X the text is approved as s	ubmitted by the applicant.	
the text has been established	shed by this Authority to read as follows:	
the text has been establi		rity as it appeárs in Box III. The applicant may,
within one month from th	e date of mailing of this international search re	eport, submit comments to this Authority.
6. The figure of the drawings to be pub	olished with the abstract is Figure No.	
as suggested by the app	licant.	X None of the figures.
because the applicant fa	iled to suggest a figure.	
because this figure bette	r characterizes the invention.	

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Present claims 1-7,12-21,24,27-30 relate to a compositions, kits and methods having or using compounds defined by reference to a desirable characteristic or property, namely (a) chemotherapeutic compounds (in claim 3 also called class B compounds) said compounds exerting cytotoxic action toward actively proliferation cells and not affecting survival and proliferative potential of interphase cells and (b) protective compounds (in claim 3 also called A compounds) said compounds having the capability of reversibly inhibiting cytodieresis of normal cells and non-inhibiting the biological action of a chemotherapeutic compound. The claims cover all compositions, kits and methods having or using these compounds having this characteristic or property, whereas the application provides support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT for only a very limited number of such compounds and methods. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the compound and their methods of use by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible. Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to compositons, kits and methods having or using the compounds described in claims 8-11, 22-23 and 25-26and the general concept of the application, concering the compositions, kits and methods in so far the compounds are defined as above in (a) and (b).

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

International Application No

/IT 00/00373

A. CLASSIFICATION OF SUBJECT MAT IPC 7 C12N5/06 A

A61K31/40

A61K38/04

C12Q1/02

A61P35/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ccc} \text{Minimum documentation searched (classification system followed by classification symbols)} \\ IPC & 7 & C12N & A61K \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

BIOSIS, EPO-Internal, PAJ, WPI Data, MEDLINE

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
X	RICHMAN C M ET AL: "INTERFERON PROTECTS NORMAL HUMAN GRANULOCYTE-MACROPHAGE COLONY-FORMING CELLS FROM ARA-C CYTOTOXICITY" JOURNAL OF BIOLOGICAL RESPONSE MODIFIERS, vol. 9, no. 6, 1990, pages 570-575, XP002165025 ISSN: 0732-6580	1-3, 10-12, 17,18, 24-27,30	
	abstract page 570, column 2, last paragraph —page 571, column 1, paragraph 1 page 572, column 1 —column 2, paragraph 1 page 573, paragraph 3		
X A	EP 0 297 946 A (UNIV SYRACUSE) 4 January 1989 (1989-01-04) abstract page 4, line 25 - line 42	17-23	
	-/		

X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
 Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filing date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filing date but later than the priority date claimed 	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
11 April 2001	04/05/2001
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Noë, V

International Application No
/IT 00/00373

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
х	SASSE FLORENZ ET AL: "The chondramides: Cytostatic agents from myxobacteria acting on the actin cytoskeleton." JOURNAL OF THE NATIONAL CANCER INSTITUTE (BETHESDA), vol. 90, no. 20, 21 October 1998 (1998-10-21), pages 1559-1563, XP000990945 ISSN: 0027-8874	17-23		
Α	the whole document			
X	WO 97 10242 A (PHARMA MAR SA ;RUFFLES GRAHAM KEITH (GB); HIGA TATSUO (JP); TANAKA) 20 March 1997 (1997-03-20)	17-23		
A	abstract page 1, paragraph 2 - last line page 2, last paragraph -page 3, paragraph 1 page 3, last paragraph -page 4, paragraph			
	1			
А	BOKEMEYER C ET AL: "SILIBININ PROTECTS AGAINST CISPLATIN-INDUCED NEPHROTOXICITY WITHOUT COMPROMISING CISPLATIN OR IFOSFAMIDE ANTI-TUMOUR ACTIVITY" BRITISH JOURNAL OF CANCER, GB, LONDON, vol. 74, 1996, pages 2036-2041, XP000874389 ISSN: 0007-0920 the whole document			
A	OTSUKA H ET AL: "VARIANT LINES OF MOUSE KIDNEY CELLS TRANSFORMED BY AN SV-40-TSA MUTANT WITH GROWTH PROPERTIES OF WILD TYPE TRANSFORMED CELLS AT NONPERMISSIVE TEMPERATURE" JOURNAL OF GENERAL VIROLOGY, vol. 42, no. 2, 1979, pages 373-386, XP000990951 EN ISSN: 0022-1317 abstract page 377, last paragraph -page 378, paragraph 1; figure 4			
Α	RUBTSOVA S N ET AL: "Disruption of actin microfilaments by cytochalasin D leads to activation of p53." FEBS LETTERS, vol. 430, no. 3, 3 July 1998 (1998-07-03), pages 353-357, XP002164902 ISSN: 0014-5793 the whole document			
	-/			

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International Application No

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT				
ategory °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
	WANG E A ET AL: "BONE MORPHOGENETIC	31-33		
	PROTEIN-2 CAUSES COMMITMENT AND			
	DIFFERENTIATION IN C3H1OT1/2 AND 3T3			
	CELLS"			
	GROWTH FACTORS, HARWOOD ACADEMIC PUBLISHERS			
	GMBH,XX,			
	vol. 9, no. 1, 1993, pages 57-71,			
	XP002920878			
	ISSN: 0897-7194 abstract			
	abstract			
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Information on patent family members

International Application No
/IT 00/00373

Patent document cited in search repor	t	Publication date		ratent family member(s)	Publication date
EP 0297946	Α	04-01-1989	AU JP WO	1969388 A 3500166 T 8810259 A	19-01-1989 17-01-1991 29-12-1988
WO 9710242	Α	20-03-1997	AU	6936596 A	01-04-1997